



PHOENIX
TECHNOLOGY SERVICES

May 12, 2016

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 23 2016

Dear District 2 - Artesia

Re: Matador Resources
B Banker 33-23S-28E RB #221H
Eddy County, New Mexico
API #30-015-43306
Job No. 60032

RECEIVED

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Brian Pittman	221H	601	15,083	04/21/16	05/07/16	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,
Claudia Carreon

Claudia Carreon
Operations Administrator

Certified mail receipt number: 7015 0640 0000 9907 5463

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

60032

ENERGY COMPANY

Matador Resources

WELL NAME

B Banker 33-23S-28E RB #221H

COUNTY & STATE

Eddy County, New Mexico

API WELL NUMBER

30-015-43306

PROPOSED DIRECTION

269.56°

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
525.00 ft	524.96 ft	1.80°	182.00°	-4.99 ft	-.50 ft	VES Gyro

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
21-Apr-16	601.00 ft	3.10°	183.70°

SURVEY INSTRUMENT

TYPE

Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
7-May-16	15,083.00 ft	92.80°	271.90°

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
7-May-16	15,151.00 ft	92.80°	271.90°

Brian Pittman

PRINT YOUR NAME ABOVE

Brian Pittman

SIGN YOUR NAME ABOVE

5/7/2016

TODAY'S DATE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.3
DECLINATION OR GRID	GRID

MWD SUPERVISOR 1

Brian Pittman

DIRECTIONAL DRILLER 1

Dustin Barnett

MWD SUPERVISOR 2

Michael Johnson

DIRECTIONAL DRILLER 2

Vinn Adams

12329 Cutten Rd., Houston, Texas 77066 (713)337-0600 (Voice), (713)337-0599 (Fax)



Matador Resources

Eddy County, NM (NAD27 NME)

B Banker 33-23S-28E RB

#221H

OH / Job 60032

Survey: Phoenix MWD Surveys

Standard Survey Report

09 May, 2016



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #221H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3091.50usft (Patterson 297)
Site:	B Banker 33-23S-28E RB	MD Reference:	RKB @ 3091.50usft (Patterson 297)
Well:	#221H	North Reference:	Grid
Wellbore:	OH / Job 60032	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Project	Eddy County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	B Banker 33-23S-28E RB		
Site Position:		Northing:	460,794.00 usft
From:	Map	Easting:	576,943.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 15' 59.73940 N
		Longitude:	104° 5' 3.85174 W
		Grid Convergence:	0.13 °

Well	#221H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 15' 59.73940 N
		Longitude:	104° 5' 3.85174 W
		Ground Level:	3,064.00 usft

Wellbore	OH / Job 60032		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	3/31/2016	7.43
			Dip Angle
			(°)
			Field Strength
			(nT)
			48,243

Design	Surveys (Patterson 297)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			269.56

Survey Program	Date 5/9/2016		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		Description
601.00	15,151.00	Phoenix MWD Surveys (OH / Job 60032)	PHX+MWD+HDGM
			PHX+QWSG MWD + HDGM

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
525.00	1.80	182.00	524.95	-4.99	-0.50	0.54	0.00	0.00	0.00
Tie-in									
601.00	3.10	183.70	600.88	-8.23	-0.67	0.74	1.71	1.71	2.24
First Phoenix MWD Survey									
691.00	0.70	181.80	690.82	-11.21	-0.85	0.93	2.67	-2.67	-2.11
783.00	2.40	36.20	782.80	-10.22	0.27	-0.19	3.26	1.85	-158.26
874.00	3.20	27.80	873.69	-6.43	2.58	-2.53	0.99	0.88	-9.23
968.00	5.50	34.40	967.41	-0.40	6.35	-6.35	2.50	2.45	7.02
1,155.00	7.30	34.10	1,153.24	16.84	18.08	-18.20	0.96	0.96	-0.16
1,342.00	6.20	40.30	1,338.95	34.38	31.27	-31.53	0.70	-0.59	3.32



Phoenix Technology Services

Survey Report



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Site:	B Banker 33-23S-28E RB	MD Reference:	RKB @ 3091.50usft (Patterson 297)
Well:	#221H	North Reference:	Grid
Wellbore:	OH / Job 60032	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
1,529.00	7.40	39.70	1,524.63	51.34	45.49	-45.88	0.64	0.64	-0.32
1,716.00	6.40	41.30	1,710.27	68.44	60.06	-60.59	0.54	-0.53	0.86
1,904.00	9.30	62.10	1,896.52	83.43	80.41	-81.05	2.14	1.54	11.06
2,091.00	6.40	57.80	2,081.75	96.05	102.59	-103.32	1.58	-1.55	-2.30
2,278.00	7.00	57.10	2,267.48	107.80	120.98	-121.80	0.32	0.32	-0.37
2,466.00	5.20	43.80	2,454.41	120.17	136.49	-137.41	1.21	-0.96	-7.07
2,653.00	4.70	33.30	2,640.72	132.69	146.57	-147.58	0.55	-0.27	-5.61
2,754.00	5.10	31.30	2,741.35	139.98	151.17	-152.24	0.43	0.40	-1.98
2,942.00	4.40	26.60	2,928.70	153.57	158.74	-159.92	0.43	-0.37	-2.50
3,129.00	4.50	41.10	3,115.15	165.52	166.77	-168.04	0.60	0.05	7.75
3,316.00	4.00	39.20	3,301.63	176.10	175.72	-177.07	0.28	-0.27	-1.02
3,504.00	4.30	41.90	3,489.14	186.42	184.57	-186.00	0.19	0.16	1.44
3,691.00	4.90	40.40	3,675.54	197.73	194.43	-195.94	0.33	0.32	-0.80
3,878.00	5.90	35.10	3,861.70	211.67	205.13	-206.75	0.60	0.53	-2.83
4,065.00	5.50	27.40	4,047.78	227.49	214.78	-216.52	0.46	-0.21	-4.12
4,252.00	6.50	33.60	4,233.76	244.26	224.76	-226.63	0.64	0.53	3.32
4,440.00	7.30	34.50	4,420.39	262.97	237.42	-239.43	0.43	0.43	0.48
4,627.00	6.50	35.80	4,606.04	281.35	250.34	-252.49	0.44	-0.43	0.70
4,814.00	3.80	38.50	4,792.27	294.78	260.39	-262.65	1.45	-1.44	1.44
5,002.00	5.90	38.20	4,979.58	307.25	270.25	-272.60	1.12	1.12	-0.16
5,189.00	5.50	30.50	5,165.66	322.53	280.74	-283.21	0.46	-0.21	-4.12
5,376.00	5.20	22.10	5,351.85	338.10	288.47	-291.06	0.45	-0.16	-4.49
5,563.00	5.40	23.60	5,538.05	354.02	295.18	-297.89	0.13	0.11	0.80
5,751.00	4.20	29.40	5,725.39	368.12	302.11	-304.92	0.69	-0.64	3.09
5,938.00	2.40	26.70	5,912.07	377.59	307.23	-310.12	0.97	-0.96	-1.44
6,125.00	1.60	25.30	6,098.95	383.44	310.10	-313.04	0.43	-0.43	-0.75
6,313.00	1.80	35.50	6,286.87	388.22	312.94	-315.91	0.19	0.11	5.43
6,500.00	0.40	60.60	6,473.83	390.93	315.21	-318.21	0.77	-0.75	13.42
6,687.00	0.10	40.70	6,660.83	391.38	315.89	-318.88	0.16	-0.16	-10.64
6,875.00	1.80	50.20	6,848.80	393.39	318.26	-321.28	0.91	0.90	5.05
6,963.00	1.40	58.40	6,936.76	394.84	320.24	-323.26	0.52	-0.45	9.32
7,057.00	1.10	67.50	7,030.74	395.79	322.05	-325.08	0.38	-0.32	9.68
7,150.00	1.80	79.50	7,123.71	396.39	324.31	-327.35	0.82	0.75	12.90
7,244.00	1.40	134.00	7,217.68	395.86	326.59	-329.62	1.60	-0.43	57.98
7,337.00	2.30	142.90	7,310.63	393.59	328.53	-331.55	1.01	0.97	9.57
7,431.00	1.70	142.80	7,404.57	390.97	330.52	-333.51	0.64	-0.64	-0.11
7,525.00	0.90	197.10	7,498.55	389.16	331.14	-334.12	1.47	-0.85	57.77
7,618.00	1.40	86.80	7,591.54	388.52	332.06	-335.03	2.05	0.54	-118.60
7,712.00	2.20	65.60	7,685.49	389.33	334.85	-337.83	1.09	0.85	-22.55
7,806.00	1.70	90.80	7,779.44	390.06	337.89	-340.87	1.04	-0.53	26.81
7,899.00	2.30	87.00	7,872.38	390.13	341.13	-344.12	0.66	0.65	-4.09
7,993.00	1.70	165.80	7,966.34	388.88	343.36	-346.33	2.75	-0.64	83.83
8,087.00	2.30	198.80	8,060.29	385.74	343.09	-346.04	1.35	0.64	35.11



Phoenix Technology Services

Survey Report



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Site:	B Banker 33-23S-28E RB	MD Reference:	RKB @ 3091.50usft (Patterson 297)
Well:	#221H	North Reference:	Grid
Wellbore:	OH / Job 60032	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,181.00	2.00	207.40	8,154.22	382.50	341.73	-344.66	0.47	-0.32	9.15
8,274.00	1.40	218.90	8,247.18	380.18	340.27	-343.18	0.74	-0.65	12.37
8,368.00	1.00	208.10	8,341.16	378.56	339.16	-342.06	0.49	-0.43	-11.49
8,462.00	1.40	183.80	8,435.14	376.69	338.70	-341.58	0.68	0.43	-25.85
8,555.00	4.00	183.20	8,528.03	372.32	338.44	-341.29	2.80	2.80	-0.65
8,649.00	2.00	173.10	8,621.89	367.42	338.46	-341.27	2.19	-2.13	-10.74
8,743.00	3.10	162.30	8,715.80	363.37	339.43	-342.21	1.27	1.17	-11.49
8,836.00	3.50	184.00	8,808.65	358.14	339.99	-342.73	1.40	0.43	23.33
8,930.00	2.80	181.00	8,902.51	352.98	339.75	-342.45	0.76	-0.74	-3.19
9,023.00	2.50	182.40	8,995.41	348.68	339.63	-342.29	0.33	-0.32	1.51
9,117.00	2.20	200.60	9,089.33	344.95	338.91	-341.55	0.85	-0.32	19.36
9,211.00	2.60	206.50	9,183.25	341.35	337.32	-339.93	0.50	0.43	6.28
9,304.00	2.00	215.40	9,276.17	338.14	335.44	-338.03	0.75	-0.65	9.57
9,398.00	1.60	229.10	9,370.13	335.94	333.50	-336.07	0.62	-0.43	14.57
9,491.00	1.30	241.60	9,463.10	334.59	331.59	-334.15	0.47	-0.32	13.44
9,585.00	1.10	232.40	9,557.08	333.53	329.93	-332.49	0.29	-0.21	-9.79
9,673.00	1.70	222.80	9,645.05	332.06	328.38	-330.92	0.73	0.68	-10.91
9,741.00	4.40	245.30	9,712.95	330.23	325.32	-327.85	4.27	3.97	33.09
9,788.00	9.30	272.60	9,759.61	329.65	319.89	-322.41	12.24	10.43	58.09
9,835.00	13.90	282.40	9,805.64	331.03	310.57	-313.11	10.61	9.79	20.85
9,882.00	20.00	285.40	9,850.58	334.38	297.30	-299.86	13.11	12.98	6.38
9,929.00	23.60	283.10	9,894.21	338.65	280.38	-282.97	7.87	7.66	-4.89
9,976.00	25.80	280.70	9,936.91	342.68	261.16	-263.79	5.14	4.68	-5.11
10,022.00	26.40	279.00	9,978.22	346.14	241.23	-243.88	2.08	1.30	-3.70
10,069.00	28.90	276.40	10,019.85	349.04	219.62	-222.29	5.91	5.32	-5.53
10,101.00	32.30	274.00	10,047.39	350.50	203.40	-206.08	11.29	10.63	-7.50
10,132.00	32.40	275.50	10,073.58	351.87	186.87	-189.56	2.61	0.32	4.84
10,163.00	34.40	276.90	10,099.46	353.72	169.90	-172.62	6.91	6.45	4.52
10,194.00	37.70	277.90	10,124.52	356.08	151.82	-154.55	10.81	10.65	3.23
10,225.00	41.00	276.50	10,148.49	358.53	132.32	-135.07	11.02	10.65	-4.52
10,256.00	44.70	276.60	10,171.21	360.94	111.38	-114.15	11.94	11.94	0.32
10,301.00	50.80	274.70	10,201.46	364.19	78.25	-81.04	13.91	13.56	-4.22
10,326.00	53.35	274.58	10,216.82	365.79	58.59	-61.40	10.21	10.20	-0.42
FPP Crossing: 10326' MD									
10,350.00	55.80	274.50	10,230.73	367.34	39.10	-41.92	10.21	10.20	-0.39
10,397.00	61.20	272.60	10,255.28	369.80	-0.88	-1.96	11.99	11.49	-4.04
10,444.00	65.70	269.50	10,276.29	370.55	-42.90	40.06	11.24	9.57	-6.60
10,490.00	70.40	269.90	10,293.48	370.32	-85.56	82.71	10.25	10.22	0.87
10,537.00	75.40	271.70	10,307.29	370.96	-130.46	127.60	11.25	10.64	3.83
10,584.00	79.80	274.10	10,317.39	373.29	-176.29	173.41	10.61	9.36	5.11
10,758.00	87.50	273.10	10,336.62	384.13	-348.75	345.79	4.46	4.43	-0.57
10,853.00	90.80	270.60	10,338.03	387.19	-443.67	440.68	4.36	3.47	-2.63
10,947.00	91.10	271.30	10,336.47	388.75	-537.64	534.64	0.81	0.32	0.74
11,042.00	89.30	271.30	10,336.14	390.91	-632.61	629.59	1.89	-1.89	0.00



Phoenix Technology Services

Survey Report



Company: Matador Resources	Local Co-ordinate Reference: Well #221H
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Site: B Banker 33-23S-28E RB	MD Reference: RKB @ 3091.50usft (Patterson 297)
Well: #221H	North Reference: Grid
Wellbore: OH / Job 60032	Survey Calculation Method: Minimum Curvature
Design: Surveys (Patterson 297)	Database: Compass 5000 GCR

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,136.00	91.60	273.10	10,335.40	394.52	-726.53	723.48	3.11	2.45	1.91
11,230.00	89.70	271.70	10,334.33	398.45	-820.43	817.35	2.51	-2.02	-1.49
11,324.00	91.90	273.40	10,333.02	402.63	-914.32	911.20	2.96	2.34	1.81
11,418.00	85.60	271.20	10,335.07	406.40	-1,008.17	1,005.02	7.10	-6.70	-2.34
11,512.00	86.40	267.50	10,341.63	405.34	-1,101.92	1,098.77	4.02	0.85	-3.94
11,607.00	90.50	267.50	10,344.20	401.20	-1,196.77	1,193.66	4.32	4.32	0.00
11,701.00	89.90	264.90	10,343.87	394.97	-1,290.56	1,287.49	2.84	-0.64	-2.77
11,796.00	90.50	262.90	10,343.54	384.87	-1,385.01	1,382.02	2.20	0.63	-2.11
11,891.00	91.40	264.60	10,341.96	374.53	-1,479.43	1,476.51	2.02	0.95	1.79
11,986.00	90.70	266.10	10,340.22	366.83	-1,574.10	1,571.24	1.74	-0.74	1.58
12,080.00	94.10	265.70	10,336.28	360.12	-1,667.76	1,664.95	3.64	3.62	-0.43
12,173.00	92.80	269.00	10,330.69	355.83	-1,760.48	1,757.69	3.81	-1.40	3.55
12,268.00	93.30	269.00	10,325.63	354.17	-1,855.33	1,852.56	0.53	0.53	0.00
12,361.00	91.50	267.90	10,321.74	351.66	-1,948.21	1,945.45	2.27	-1.94	-1.18
12,456.00	94.20	272.90	10,317.01	352.32	-2,043.05	2,040.28	5.98	2.84	5.26
12,549.00	91.10	271.70	10,312.71	356.04	-2,135.86	2,133.07	3.57	-3.33	-1.29
12,643.00	88.10	270.00	10,313.37	357.44	-2,229.84	2,227.03	3.67	-3.19	-1.81
12,738.00	89.60	272.00	10,315.28	359.10	-2,324.80	2,321.97	2.63	1.58	2.11
12,832.00	90.20	272.60	10,315.44	362.87	-2,418.72	2,415.86	0.90	0.64	0.64
12,926.00	93.40	274.00	10,312.49	368.28	-2,512.50	2,509.60	3.72	3.40	1.49
13,020.00	90.40	272.60	10,309.37	373.68	-2,606.28	2,603.33	3.52	-3.19	-1.49
13,114.00	93.60	273.80	10,306.09	378.92	-2,700.06	2,697.07	3.64	3.40	1.28
13,208.00	91.00	271.00	10,302.32	382.85	-2,793.89	2,790.87	4.06	-2.77	-2.98
13,303.00	93.10	273.60	10,298.92	386.66	-2,888.74	2,885.68	3.52	2.21	2.74
13,397.00	91.50	269.70	10,295.14	389.36	-2,982.60	2,979.52	4.48	-1.70	-4.15
13,491.00	89.80	268.30	10,294.08	387.72	-3,076.58	3,073.51	2.34	-1.81	-1.49
13,585.00	92.60	269.40	10,292.11	385.84	-3,170.53	3,167.47	3.20	2.98	1.17
13,679.00	91.70	268.80	10,288.58	384.36	-3,264.45	3,261.40	1.15	-0.96	-0.64
13,774.00	91.50	268.40	10,285.93	382.04	-3,359.38	3,356.35	0.47	-0.21	-0.42
13,868.00	89.10	266.40	10,285.44	377.78	-3,453.27	3,450.27	3.32	-2.55	-2.13
13,963.00	95.20	267.60	10,281.88	372.81	-3,548.03	3,545.06	6.54	6.42	1.26
14,058.00	94.20	267.20	10,274.09	368.52	-3,642.61	3,639.67	1.13	-1.05	-0.42
14,152.00	93.60	267.00	10,267.70	363.77	-3,736.27	3,733.37	0.67	-0.64	-0.21
14,246.00	93.60	266.80	10,261.80	358.70	-3,829.95	3,827.08	0.21	0.00	-0.21
14,340.00	92.90	265.80	10,256.47	352.64	-3,923.60	3,920.78	1.30	-0.74	-1.06
14,434.00	94.20	265.80	10,250.65	345.77	-4,017.16	4,014.39	1.38	1.38	0.00
14,529.00	97.40	268.50	10,241.05	341.07	-4,111.54	4,108.80	4.40	3.37	2.84
14,622.00	97.20	271.30	10,229.23	340.90	-4,203.78	4,201.03	2.99	-0.22	3.01
14,717.00	93.80	271.70	10,220.12	343.38	-4,298.29	4,295.53	3.60	-3.58	0.42
14,811.00	90.40	271.10	10,216.68	345.67	-4,392.19	4,389.40	3.67	-3.62	-0.64
14,905.00	91.60	271.60	10,215.04	347.89	-4,486.14	4,483.34	1.38	1.28	0.53
15,000.00	93.20	272.40	10,211.06	351.20	-4,581.00	4,578.17	1.88	1.68	0.84
15,045.00	92.98	272.13	10,208.63	352.98	-4,625.90	4,623.05	0.77	-0.48	-0.60



Phoenix Technology Services

Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #221H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3091.50usft (Patterson 297)
Site:	B Banker 33-23S-28E RB	MD Reference:	RKB @ 3091.50usft (Patterson 297)
Well:	#221H	North Reference:	Grid
Wellbore:	OH / Job 60032	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
LPP Crossing: 15045' MD									
15,083.00	92.80	271.90	10,206.72	354.31	-4,663.83	4,660.97	0.77	-0.48	-0.60
Final Phoenix MWD Survey									
15,151.00	92.80	271.90	10,203.39	356.56	-4,731.71	4,728.83	0.00	0.00	0.00
Projection to TD									

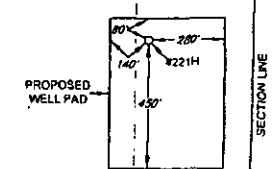
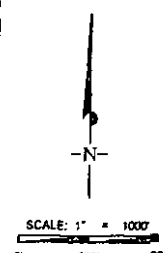
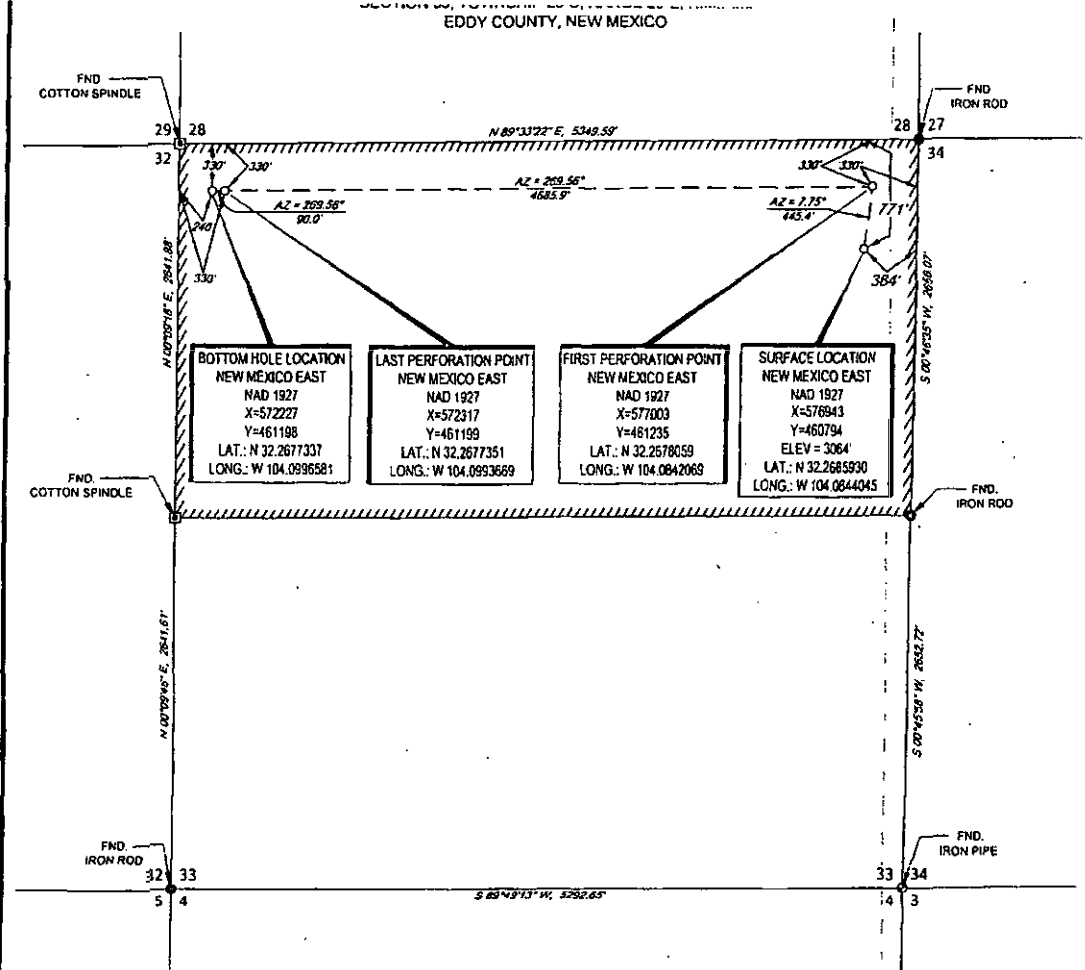
Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
525.00	524.95	-4.99	-0.50	Tie-in
601.00	600.88	-8.23	-0.67	First Phoenix MWD Survey
10,326.00	10,216.82	365.79	58.59	FPP Crossing: 10326' MD
15,045.00	10,208.63	352.98	-4,625.90	LPP Crossing: 15045' MD
15,083.00	10,206.72	354.31	-4,663.83	Final Phoenix MWD Survey
15,151.00	10,203.39	356.56	-4,731.71	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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30-015-43306

EDDY COUNTY, NEW MEXICO



DETAIL VIEW
SCALE: 1" = 500'

LEASE NAME & WELL NO.: B BANKER 33-23S-28E RB #221H

SECTION 33 TWP 23-S RGE 28-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 771' FNL & 384' FEL

DISTANCE & DIRECTION
FROM INT. OF US-285 & DUARTE RD. GO NORTH ON US-285
±0.1 MILES, THENCE EAST (RIGHT) ON ONSUREZ RD. ±2.7 MILES
TO A POINT ±1200 FEET EAST OF THE LOCATION.

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Michael Blake Brown, P.S. No. 18329
August 10, 2015